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Review by WESTERN UNION ATTN TELEPHONE 524-6654 NGA/DoD WILL CALL 3109 WILSON BLVD ARLINGTON VIR STATSUBJECT: REFERENCE CUSTOMER LETTER OF 4 JANUARY 1971 ON LIGHT TABLE DEFECTS. 1. WE SUBMIT THAT NO SAFETY HAZARD EXISTS. OTHERWISE WE WOULD HAVE ALTERED TABLE DESIGN. THIS FIRST UNIT WAS THOROUGHLY EXAMINED BY YOUR PERSONNEL IN LOS ANGELES. IF YOU ELECT, WILL ACCEPT A SCOPE CHANGE TO CORRECT THE SITUATION. 2. THIS FAULT APPEARS TO BE UNIQUE TO TABLE S/NOO1, AND DOES NOT APPEAR ON THE ATTACHMENT NO. 2 REGARDING THE INSPECTION OF 14 PRODUCTION TABLES. OUR FIELD SERVICE REPRESENTATIVE WILL INSPECT AND CORRECT THIS DEFICIENCY ON S/NOO1. 3. MS26565 DOES NOT COVER THE DIMENSIONS OF A 6.6" REEL. TOOK THE POSITION THAT 6.6" FILM WIDTH BE IN EFFECT SUBSTITUTED FOR THE 5" FILM WIDTH IN SAID STANDARD AND EXTROPOLATED APPROPRIATE DIMENSIONS FROM THE 5" SPECIFICATION. THIS RESULTED IN A DESIGN WHERE THE MAXIMUM-TOLERANCED REEL WOULD BE NO GREATER THAN 6.782-INCHES. THE PROTOTYPE PREVIOUSLY DELIVERED AND EVALUATED BY YOU AND UNIT SERIAL OO1 INSPECTED HERE IN LOS ANGELES BOTH STATINCORPORATE THIS DESIGN. [ UNDERSTANDS THAT CURRENT 6.6" REELS AVAILABLE TO THE CUSTOMER EXCEED THIS NUMBER AND THE CRITICAL NATURE OF THIS PARAMETER. WE WILL IMMEDIATELY INSTITUTE A COPRECTION WHICH IS FIELD RETROFITTABLE AND FACTORY IMPLEMENTED,

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PARAGRAPH 3.4.1.2% LND THAT THE CABLE CAN BE EASILY MOVED ASIDE EY THE OPERATORPHIS VAN RET RESEASO 2005 (06/23 ACIA-REP 78 BO5171 CODING ON MOTORS IS MEANT ONLY AS A VISUAL REFERENCE GUIDE AND THE PRECISE POSITIONING IS OBTAINED BY MECHANICAL DETENTING IN WHICH AN OPERATOR CAN FEEL LOCK-IN. WHEN MOTORS ARE USED IN THE SPLIT VERTICAL MODE, THIS VISUAL REFERENCE CAN BE OBTAINED BY USING THE LEFT REAR MOTOR ON THE LOWER RIGHT POSITION AND THE RIGHT REAR MOTOR ON THE LOWER LEFT POSITION. MOTORS ARE EASILY INTERCHANGED BY SIMPLE PLUG-IN OPERATION. ISUBMITS THAT DESIGN MEETS THE REQUIREMENTS OF 3.3.1.2 6. [ TRECOGNIZES STA THE CONDITION OF LOWER COVER BEING PREVENTED FROM OPENING WHEN THE TABLE HAS SHIFTED IN ITS HORIZONTAL POSITION RELATIVE TO THE ELEVATING STAND. WE WILL MAKE AN IN-LINE CORRECTION TO PREVENT THE TABLES FROM SHIFTING; AND PROVIDE FIELD-INSTALLED PLUGS TO HOLD THE TABLES IN THE CORRECT POSITION. OPERATIONAL THE PROGEDURES WILL REQUIRE THAT THE TABLE BE LOWERED TO THE HORIZONTAL POSITION FOR LOADING THE IN-LINE VIEWING OF TWO SIMILAR-WIDTH unian FILMS. AND THIS IS A SIMPLE OPERATION. 7. TRECOGNIZES THE INCONVENIENCE OF THE TAKE-UP LOOK BEING BLOCKED IN ONE DIRECTION DUE TO THE CABLE GUIDES, AND WILL MAKE AN IN-LINE CHANGE TO CORRECT THIS AND PROVIDE A BASIS FOR FIELD RETROFIT. 8. THE LOCATION OF THE LOWER COVER LATCHES ARE THE RESULT OF we coult argue this A DESIGN TRADE-OFF FOR SAFETY AND CONVENIENCE OF THE OPERATOR IN THE KNEEWELL AREA. STA SUBMITS THAT THE OPERATION IS A SIMPLE ONE, IS NOT AN OPERATING CONTROL, AND IT MEETS THE REQUIREMENTS OF PARAGRAPH 3.2.1.4. 9. PROVISION HAS BEEN MADE FOR ADJUSTMENT BY FACTORY TRAINED PERSONNEL TO BALANCE THE TWO ILLUMINATION SOURCES IN ORDER TO MEET THE REQUIREMENTS OF THE FIRST PORTION OF PARAGRAPH 3.1.1.1. WILL ENSURE STA THAT FACTORY CHECKOUT PROCEDURES WILL COMPLY WITH THIS REQUIREMENT A toing OUR TRAINED FIELD PERSONNEL CAN CORRECT THE DIFFERENCE IN S/NOO2. 到 E THE LIGHT SOURCE CONTAINED IN THE TABLE IS A SIGNIFICANT ADVANCEMENT IN THE STATE-OF-THE-ART. THE REQUIREMENT TO EXCEED 3,000 FT.

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LAMBERTS, MEET THE DIMMING RATIO OF 20:1, AND PROVIDE NO VISIBLE OBJECTIONABLE Approved For Pase 2005/06/23: CIA-RDP78B05171 EXCEEDED ALL THESE REQUIREMENTS SIGNIFICANTLY. TABLE ERIGHTNESS HAS AN APPROXIMATE OPERATING RANGE FROM 100 FT. LAMBERTS TO 3,500 FT. LAMBERTS AND FACTORY ADJUSTMENTS ALLOW THE GOVERNMENT TO TAKE FULL ADVANTAGE OF THIS INCREASED PERFORMANCE. G AS A RESULT OF THIS INCREASED BRIGHTNESS, THE REQUIREMENT OF THE SECOND PART OF PARAGRAPH 3.1.1. MIGHT BE EXCEEDED BY On A SMALL PERCENTAGE POINT FOR A SMALL PERCENTAGE OF THE TABLES. CONSIDERS THIS TO BE OF LITTLE CONSEQUENCE AND THEREFORE IS SETTING CONTROLS FOR BRIGHTER OPERATION. IF THE GOVERNMENT DESIRES, COULD FACTORY-SET THE TABLES TO OPERATE IN 200 TO 3,000 FT. LAMBERTS RANGE SUCH THAT ILLUMINATION WOULD western FALL WITHIN THE VARIATION REQUIREMENT. 10. RECOGNIZES STAT THE LOW RETAINING FORCE OF S/NOO1 PAD LOCKS AND RESULTING OPERATOR INCONVENIENCE. AN IN-LINE CORRECTION HAS BEEN MADE EFFECTIVE what does this me WITH S/NOO2 AND WE WILL FORWARD A CORRECTED MOUNT IMMEDIATELY FOR FIELD INSTALLATION IN S/NOO1. 11. (A) THE TRACK ON THE LEFT SIDE WAS DESIGNED TO FLOAT AT ONE END TO PROVIDE EASE OF BRIDGE MOTION. 11. (B) THE PLASTIC PROTECTOR COVERS ON THE Y CHAIN DRIVES WERE DESIGNED TO HAVE ADEQUATE CLEARANCE SUCH THAT THERE WOULD BE NO DRAG ON THE SYSTEM. HOWEVER, APPARENTLY 2 SOME MOTION OR DISTORTION TAKES PLACE DURING SHIPMENT WHICH STATCAUSES A SLIGHT INTERFERENCE. HAS TAKEN CORRECTIVE ACTION TO INCREASE THE CLEARANCE AS AN IN-LINE CHANGE FOR FUTURE SHIPMENTS. FOR DELIVERED UNITS, SLIGHT ADJUSTMENTS BY OUR FIELD REPRESENTATIVE W. W. Union WILL CORRECT THIS MISALIGNMENT. 11. (C) HAS REVIEWED STAT THE DESIGN AND FEELS THAT THE POWER CORD REEL IS ADEQUATELY ATTACHED TO THE TABLE. THE DESCRIPTION GIVEN IN PARAGRAPH 11. (C) REQUIRES CLARIFICATION BEFORE WE CAN MAKE FURTHER COMMENT. 11. (D) THE TILT MECHANISM WHICH CONTAINS THE MERCURY SWITCH IS THOROUGHLY TESTED, THIS DEFECT APPEARS UNIQUE TO S/NOO1, AND WILL BE CORRECTED

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	SATISFIES REQUIREMENT. A Case 2005/06/23 CIA-RDP78B05171 000400030115-3
CI Kall	BEFORE WE CAN COMMENT FURTHER. GENERALLY WE ARE KEENLY AWARE
	OF THE IMPORTANCE OF QUALITY CONTROL, AND ARE IN A CONTINUAL
	REVIEW PROCESS TO ASSURE THAT STANDARDS ARE ACCEPTABLE AND
ğ.,	TOTALLY IMPLEMENTED. WE WILL CONTINUE TO BE ALERT TO THESE
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	THE REASONS FOR THE VARIATIONS FROM TEST 1 TO TEST 2. WITH
	THIS KNOWLEDGE FOR THE FIRST TIME, WE WILL REVIEW WITH OUR
	SUPPLIER AND TAKE THE NECESSARY CORRECTIVE ACTION ON FUTURE
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## Defects

- 1. The table tilts by lifting the back of the unit and hinging on the front. This creates a nutcracker effect at the hinge. The tilt switch is located very close to the hinge, and it has been determined that an operator could very easily suffer crushed fingers while operating the switch.
- 2. The Y motion is locked when the table is tilted. This system is actuated by a mercury switch. The adjustment required to provide this locking feature just after tilting starts, and to release the lock after it becomes horizontal, is quite touchy. The prototype table is just as likely to be locked in the horizontal position as unlocked. If this is relieved, the carriage may start to roll forward when tilting occurs before locking takes place.
- 3. Using a gauge configured to show the maximum overall width of a 6.6" film reel, it was found that interferences exist at all reel stations. Further checks on the production models available at that time showed that 23 of 24 stations checked are too narrow and will not accept the 6.822 inch dimension specified.
- 4. The cable which connects the focus mechanism to the power supply and electronics at the back of the table prevents the focus mechanism from realizing full travel to the back of the viewing surface.
- 5. Markers are provided on the table to aid in placing the motors and idlers for various film configurations. The motors have matching markers on one side. However, the motors must be used in such a way that the side not containing the marker is in view. Consequently, markers must be placed on both sides.
- 6. The MLT is made in two parts, an elevating stand and the light table proper. If the light table is not put on the stand at the right place, or if it shifts while being transported, the lower

Contract References

Para. 3.6.5 (4) - Moving parts such as ventilable fans, drive belts, or gears, shall be shielded to enclosed to prevent inadvertent access by the operator.

Para. 3.5.1.4.2 - A manual bridge furnished with tilting stand shall be provided with an optional fail-safe override to prevent uncontrolled motion in the Y direction when the table is tilted. To move the carriage in the Y direction with the horizontal, it shall be necessary only to relate the Y friction lock. In a tilted position, a fall safe interlock shall be activated preventing Y translation unless the interlock is purposely defeated.

Pera. 2 - The table shall accommodate spools ranging up to and including the size of spool specified in Military Standard MS26565-22 loaded to capacity with film.

Para. 3.4.1.2 - With any of the microstereoscopa: fixed in the mount, and using the center of the scope as a reference, translation in the Y direct shall be adequate to cover the full 15" depth of the glass viewing surface.

Para. 3.3.1.2 - A visual reference scale and inding device with positive detents shall be provide to allow accurate positioning of the brackets to hold the various width spools and assure accurate tracking across the glass viewing surfaces of the film parallel to the longitudinal axis of the line table and to each other.

Para. 2 - Provision shall be made for viewing... in-line viewing of two of the same widths, of 70.5", 6.6", or 9.5" wide film.

### Approved For Release 2005/06/23: CIA-RDP78B05171A000400030115-3

cover is prevented from dropping by the tilt and elevating switch housing. The lower cover will not open when the table is tilted.

- 7. The mechanism which takes up the dead loop at the center of the table employs cable guides which hold the actuating mechanism in its track. These cable guides have profiles which prevent the looping mechanism from reversing direction at one point in its travel.
- 8. The lower cover latches are very difficult to operate, due to their placement and design.
- 9. The illumination sources are not equal within 100 fL at maximum. The left measured 3225 fL max and the right 3010 fL max.

The change in output of one side when the other is turned completely down or up should not exceed 100 fL. This change was measured to be 150 fL on the left side and 165 fL on the right side.

- 10. The screws holding the pod in the optics mount do not provide adequate force to prevent unwanted motion.
- ll. There have been instances of evidence of poor quality control. a) The bearing track on the left side was not fastened tightly. b) The plastic protector covers on the Y chain drives dragged the chain and drive elements. c) The power cord reel fell off of the unit. d) The tilt lock mercury switch was not set properly.

Para. 2 - The table shall include a simple film looping mechanism which shall allow forming a loof film below the table in order that separated frames, on the same roll of film, may be arranged adjacent to each other for convenient stereo viewing. Looping of parallel rolls of film is required. This mechanism shall be capable of forming a continuous film loop from 0 to 76 in

Para 3.2.1.4 - All controls, including the film hand wheels (on the manual version), shall be positioned so they can be easily manipulated. In this respect, it is understood that the location of the controls, as supplied on the preproduction model (when accepted), will be satisfactory.

Para. 3.1.1.1 - The maximum levels of the two illumination sources shall not differ by more the 100 foot lamberts at the time of this measurement with one of the two sources set at maximum or minimum illumination level, there shall not be change of more than 100 foot lamberts in illumination level of that source when the illumination level of the other source is adjusted throught its full range.

Para 3.5.1 - Mounting devices shall be sufficient rigid to preclude instrument misalignment and loof collimation of the optics with respect to the viewing surface during normal handling and operation.

Contract, Page 3, ACCEPTANCE - Final inspection and acceptance of articles shall be by demonstrate of successful performance and completion of terms set forth in a mutually approved Acceptance Templan (ATP), which shall be provided for approved two (12) wasks prior to commencement of tests of

Approved For Release 2005/06/23: CIA-RDP78B0517/A0004006/05 prior to commencement of tests c

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Para. 11 (continued)

Contract, Page 4, WARRANTY OF SUPPLIES - All supplies furnished under this Contract will be free from defects in material or workmanship and will conform with the specifications and all other requirements of this Contract.

12. The color rendering index (CRI), correlated color temperature (CCT), and chromaticity aim points  $(X,\,Y)$  were measured for each side and are listed below.

Para. 3.1.1.2

	Left Side		Right	Side
	Test 1	Test 2	Test 1	Test 2
CCT CRI X	5574 57.69 0.3304	5689 55.28 0.3278	5565 57.53 0.3311	5706 55•93 0•3275
Y	0.3626	0.3616	0.3659	0.3614

CCT CRI X Y	1	5000 <u>+</u> 500K 2 70 0.345 0.358

1145 2000 CJ AXOOE (L IMA391) NL PDE TDIW FAX LOS ANGELES CALIF JAN 7 WESTERN UNION ATTN TELEPHONE 524-6654 WILL CALL 3109 WILSON BLVD ARLINGTON VIR SUBJECT: REFERENCE CUSTOMER LETTER OF 4 JANUARY 1971 ON LIGHT TABLE DEFECTS. 1. WE SUBMIT THAT NO SAFETY HAZARD EXISTS. OTHERWISE WE WOULD HAVE ALTERED TABLE DESIGN. THIS FIRST UNIT WAS THOROUGHLY EXAMINED BY YOUR PERSONNEL IN LOS ANGELES. IF YOU ELECT, WILL ACCEPT A SCOPE CHANGE TO CORRECT THE SITUATION. 2. THIS FAULT APPEARS TO BE UNIQUE TO TABLE S/NOO1, AND DOES NOT APPEAR ON THE ATTACHMENT NO. 2 REGARDING THE INSPECTION OF 14 PRODUCTION TABLES. OUR FIELD SERVICE REPRESENTATIVE WILL INSPECT AND CORRECT THIS DEFICIENCY ON S/NOO1. 3. MS26565 DOES NOT COVER THE DIMENSIONS OF A S.G" REEL. TOOK THE POSITION THAT 6.6" FILM WIDTH BE IN EFFECT SUBSTITUTED FOR THE 5" FILM WIDTH IN SAID STANDARD AND EXTROPOLATED APPROPRIATE DIMENSIONS FROM THE 5" SPECIFICATION. THIS RESULTED IN A DESIGN WHERE THE MAXIMUM-TOLERANCED REEL WOULD BE NO GREATER THAN 6.782-INCHES. THE PROTOTYPE PREVIOUSLY DELIVERED AND EVALUATED BY YOU AND UNIT SERIAL OO1 INSPECTED HERE IN LOS ANGELES BOTH INCORPORATE THIS DESIGN. UNDERSTANDS THAT CURRENT 6.6" REELS AVAILABLE TO THE CUSTOMER EXCEED THIS NUMBER AND THE CRITICAL NATURE OF THIS PARAMETER. WE WILL IMMEDIATELY INSTITUTE A CORRECTION WHICH IS FIELD RETROFITTABLE AND FACTORY IMPLEMENTED, AND WILL SUBMIT A CLAIM COVERING THIS SCOPE CHANGE. 4 SUBMITS THAT THE TABLE COMPLETELY MEETS THE REQUIREMENTS OF PARAGRAPH 3.4:1.2, AND THAT THE CABLE CAN BE EASILY MOVED ASIDE BY THE OPERATOR AS A METTER ROUTINE PRACTICES 5. THE COLOR CODING ON MOTORS IS MEANT ONLY AS A VISUAL REFERENCE GUIDE AND THE PRECISE POSITIONING IS OBTAINED BY MECHANICAL DETENTING IN WHICH AN OPERATOR CAN FEEL LOCK-IN. WHEN MOTORS ARE USED IN THE SPLIT VERTICAL MODE, THIS VISUAL REFERENCE CAN BE OBTAINED BY USING THE LEFT REAR MOTOR ON THE LOWER RIGHT POSITION AND THE RIGHT REAR MOTOR ON THE LOWER LEFT POSITION. MOTORS ARE EASILY INTERCHANGED BY SIMPLE PLUG-IN OPERATION. SUBMITS THAT DESIGN MEETS THE REQUIREMENTS OF 3.3.1.2 6. THE CONDITION OF LOWER COVER BEING PREVENTED FROM OPENING WHEN THE TABLE HAS SHIFTED IN ITS HORIZONTAL POSITION RELATIVE TO THE ELEVATING STAND. WE WILL MAKE AN IN-LINE CORRECTION TO PREVENT THE TABLES FROM SHIFTING; AND PROVIDE FIELD-INSTALLED PLUGS TO HOLD THE TABLES IN THE CORRECT POSITION. OPERATIONAL PROCEDURES WILL REQUIRE THAT THE TABLE BE LOWERED TO THE HORIZONTAL POSITION FOR LOADING THE IN-LINE VIEWING OF TWO SIMILAR-WIDTH FILMS. AND THIS IS A SIMPLE OPERATION. 7. RECOGNIZES THE INCONVENIENCE OF THE TAKE-UP LOOK BEING BLOCKED IN ONE DIRECTION DUE TO THE CABLE GUIDES, AND WILL MAKE AN IN-LINE CHANGE TO CORRECT THIS AND PROVIDE A BASIS FOR FIELD RETROFIT. s. THE LOCATION OF THE LOWER COVER LATCHES ARE THE RESULT OF A DESIGN TRADE-OFF FOR SAFETY AND CONVENIENCE OF THE OPERATOR IN THE KNEEWELL AREA. SUBMITS THAT THE OPERATION IS A SIMPLE ONE, IS NOT AN OPERATING CONTROL, AND IT MEETS THE REQUIREMENTS OF PARAGRAPH 3.2.1.4. 9. PROVISION HAS BEEN MADE FOR ADJUSTMENT BY FACTORY TRAINED PERSONNEL TO BALANCE THE TWO ILLUMINATION SOURCES IN ORDER TO MEET THE REQUIREMENTS 0 OF THE FIRST PORTION OF PARAGRAPH 3.1.1.1. WILL ENSURE THAT FACTORY CHECKOUT PROCEDURES WILL COMPLY WITH THIS REQUIREMENT. OUR TRAINED FIELD PERSONNEL CAN CORRECT THE DIFFERENCE IN S/NOO2. THE LIGHT SOURCE CONTAINED IN THE TABLE IS A SIGNIFICANT ADVANCEMENT IN THE STATE-OF-THE-ART. WE REQUIREMENT TO EXCEED I 00 FT. LAMBERTS, MEET THE DIMMING RATIO OF 20:1, AND PROVIDE NO VISIBLE OBJECTIONABLE FLICKER RESULTED IN DIFFICULT DESIGN TRADE-OFFS Approved For Please 2005/06/23: CIA-RDP78B0517 0000400030115-3

EXCREDED ALL THESE REQUIREMENTS SIGNIFICANTLY TABLE

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# Approved For Release 2005/06/23: CIA-RDP78B05171A000400030115-3 List of Contractual Defects on Table Ser. No. OOl

Attachment 1 8 1 DEC 1970

### Defects

- 1. The table tilts by lifting, the back of the unit and hinging on the front. This creates a nutcracker effect at the hinge. The tilt switch is located very close to the hinge, and it has been determined that an operator could very easily suffer crushed fingers while operating the switch.
- 2. The Y motion is locked when the table is tilted. This system is actuated by a mercury switch. The adjustment required to provide this locking feature just after tilting starts, and to release the lock after it becomes horizontal, is quite touchy. The prototype table is just as likely to be locked in the horizontal position as unlocked. If this is relieved, the carriage may start to roll forward when tilting occurs before locking takes place.
- 3. Using a gauge configured to show the maximum overall width of a 6.6" film reel, it was found that interferences exist at all reel stations. Further checks on the production models available at that time showed that 23 of 24 stations checked are too narrow and will not accept the 6.822 inch dimension specified.
- 4. The cable which connects the focus mechanism to the power supply and electronics at the back of the table prevents the focus mechanism from realizing full travel to the back of the viewing surface.
- 5. Markers are provided on the table to aid in placing the motors and idlers for various film configurations. The motors have matching markers on one side. However, the motors must be used in such a way that the side not containing the marker is in view. Consequently, markers must be placed on both sides.
- 6. The MLT is made in two parts, an elevating stand and the light table proper. If the light table is not put on the stand at the right place, or if it shifts while being transported, the lower

# Contract References

Para. 3.6.5 (4) - Moving parts such as ventilating fans, drive belts, or gears, shall be shielded or enclosed to prevent inadvertent access by the operator.

Para. 3.5.1.4.2 - A manual bridge furnished with a tilting stand shall be provided with an optional fail-safe override to prevent uncontrolled motion vin the Y direction when the table is tilted. To move the carriage in the Y direction with the table horizontal, it shall be necessary only to relet the Y friction lock. In a tilted position, a fail safe interlock shall be activated preventing Y translation unless the interlock is purposely defeated.

Para. 2 - The table shall accommodate spools ranging up to and including the size of spool specified in Military Standard MS26565-22 loaded to capacity with film.

Para. 3.4.1.2 - With any of the microstereoscopes fixed in the mount, and using the center of the scope as a reference, translation in the Y direction shall be adequate to cover the full 15" depth of the glass viewing surface.

Para. 3.3.1.2 - A visual reference scale and indexing device with positive detents shall be provided to allow accurate positioning of the brackets to hold the various width spools and assure accurate tracking across the glass viewing surfaces of the film parallel to the longitudinal axis of the light table and to each other.

Para. 2 - Provision shall be made for viewing... in-line viewing of two of the same widths, of 70mm 5", 6.6", or 9.5" wide film.

#### Approved For Release 2005/06/23 : CIA-RDP78B05171A000400030115-3

cover is prevented from dropping by the tilt and elevating switch housing. The lower cover will not open when the table is tilted.

- 7. The mechanism which takes up the dead loop at the center of the table employs cable guides which hold the actuating mechanism in its track. These cable guides have profiles which prevent the looping mechanism from reversing direction at one point in its travel.
- 8. The lower cover latches are very difficult to operate, due to their placement and design.
- 9. The illumination sources are not equal within 100 fL at meximum. The left measured 3225 fL max and the right 3010 fL max.

The change in output of one side when the other is turned completely down or up should not exceed 100 fL. This change was measured to be 150 fL on the left side and 165 fL on the right side.

- 10. The screws holding the pod in the optics mount do not provide adequate force to prevent unwanted motion.
- ll. There have been instances of evidence of poor quality control. a) The bearing track on the left side was not fastened tightly. b) The plastic protector covers on the Y chain drives cragged the chain and drive elements. c) The power cord reel fell off of the unit. d) The tilt lock mercury switch was not set properly.

Para. 2 - The table shall include a simple film looping mechanism which shall allow forming a loop of film below the table in order that separated frames, on the same roll of film, may be arranged adjacent to each other for convenient stereo viewing. Looping of parallel rolls of film is not required. This mechanism shall be capable of forming a continuous film loop from 0 to 76 inc

Para 3.2.1.4 - All controls, including the film hand wheels (on the manual version), shall be positioned so they can be easily manipulated. In this respect, it is understood that the location of the controls, as supplied on the preproduction model (when accepted), will be satisfactory.

Para. 3.1.1.1 - The maximum levels of the two illumination sources shall not differ by more than 100 foot lamberts at the time of this measurement. With one of the two sources set at maximum or minimum illumination level, there shall not be a change of more than 100 foot lamberts in illumination level of that source when the illumination level of the other source is adjusted throughout its full range.

Para 3.5.1 - Mounting devices shall be sufficiently rigid to preclude instrument misalignment and loss of collimation of the optics with respect to the viewing surface during normal handling and operation.

Contract, Page 3, ACCEPTANCE - Final inspection and acceptance of articles shall be by demonstration of successful performance and completion of tests set forth in a mutually approved Acceptance Test Plan (ATP), which shall be provided for approval two (2) weeks prior to commencement of tests on the

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### Approved For Release 2005/06/23 : CIA-RDP78B05171A000400030115-3

Para. 11 (continued)

Contract, Page 4, WARRANTY OF SUPPLIES - All supplies furnished under this Contract will be free from defects in material or workmanship and will conform with the specifications and all other requirements of this Contract.

12. The color rendering index (CRI), correlated color temperature (CCT), and chromaticity aim points  $(X,\,Y)$  were measured for each side and are listed below.

	Left Side		Right Side	
	Test 1	Test 2	Test l Test 2	2
CCT CRI X Y	557 <sup>1</sup> + 57.69 0.330 <sup>1</sup> + 0.3626	5689 55.28 0.3278 0.3616	5565 5706 57.53 55.93 0.3311 0.3275 0.3659 0.361	

Para. 3.1.1.2

CCT CRI X Y	2	5000 <u>+</u> 500K 2 70 0.345 0.358
		<i>;</i> .